

Appln. No. 09/821,723  
Attorney Docket No.: 2001A002  
Amendment in Response to February 10, 2006 Office Action

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**Amendments to the Claims:**

This listing of claims will replace all prior versions and listing of claims in this application.

**Listing of Claims:**

Claims 1-47 (Canceled)

48. (Currently Amended) A method for the continuous fabrication of a plurality of particulate electrocatalyst compositions, comprising the steps of:

- a) providing a precursor to an electrocatalyst composition comprising at least a first precursor component and a second precursor component;
- b) dispersing said precursor into precursor droplets
- c) reacting said precursor droplets while dispersed in a carrier gas to form a particulate reacted precursor; and
- d) collecting said particulate reacted precursor by depositing said particulate precursor on a substrate,

wherein said step of providing a precursor composition comprises controllably changing said precursor composition during the fabrication method such that said reacted precursor composition comprises at least a first electrocatalyst composition at a first time and a second electrocatalyst composition at a second time.

49. (Original) A method as recited in Claim 48, wherein at least one of said first and second precursor components is a precursor component in solution.

50. (Original) A method as recited in Claim 48, wherein at least one of said first and second precursor components comprises a particulate solid in suspension.

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51. (Original) A method as recited in Claim 48, wherein said precursor comprises gas phase reactants.

52. (Original) A method as recited in Claim 48, wherein said step of controllably changing said electrocatalyst composition comprises controllably varying the ratio of said first precursor component to said second precursor component.

53. (Original) A method as recited in Claim 48, further comprising the step of dispersing said precursor into precursor droplets before said reacting step.

54. (Original) A method as recited in Claim 48, wherein said reacting step comprises heating said precursor.

Claim 55 (Canceled)

56. (Original) A method as recited in Claim 48, wherein said collecting step comprises depositing said precursor in a substantially continuous manner on a substrate to form a linear feature having a compositional gradient.

57. (Original) A method as recited in Claim 48, wherein said electrocatalyst compositions comprise metal-carbon composites.

58. (Original) A method as recited in Claim 48, wherein said first precursor component comprises a metal precursor and said second precursor component comprises a carbon precursor and wherein said step of controllably changing said electrocatalyst composition comprises changing the ratio of said metal precursor to said carbon precursor.

59. (Original) A method as recited in Claim 48, wherein said electrocatalyst composition comprises a perovskite phase metal oxide.

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60. (Original) A method as recited in Claim 48, wherein said electrocatalyst composition comprises a perovskite phase oxide including at least a first metal and a second metal and wherein said first precursor component comprises a first metal precursor and said second precursor component comprises a second metal precursor and wherein said step of controllably changing said electrocatalyst composition comprises changing the ratio of said first metal precursor to said second metal precursor.

Claims 61-122 (Canceled)